



Concentration of multiple functions

High scalability and easy to extend

Standard 19" housing

IP inputs

PAL/SECAM outputs

A2/NICAM Stereo Audio

Software oriented architecture

Significant RF management simplification

Multi-format modulation from 1 RF output

Digitization of TV and following changes in technology

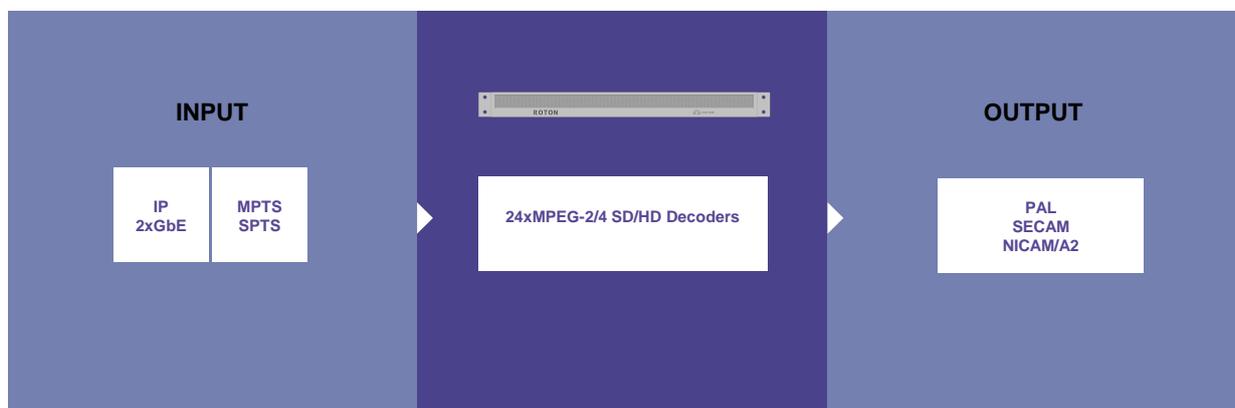
In the television digitization era, technology is changing. New TV receivers are equipped with DVB-T tuners, so the operators can provide digital television safely and in cost-effective way without the need of buying expensive STB's. At the same time there is still need of providing analog signal, but in a next few years it will be replaced by COFDM transmission.

In order to meet demands of the market, operators need a solution that, on the one hand, will keep the analog offer, and on the other, will allow an easy and convenient way to migrate to digital TV transmitted using COFDM.

Universal ROTON modulator

In response to these needs, VECTOR designed ROTON - EdgePAL modulator that concentrates multiple functions in one device, which makes it a universal solution.

ROTON is particularly dedicated to be used at edge locations of cable operator's networks and also in applications of sale of television offer to hotels, hospitals etc.



GbE (IP) interface

Max. port load	Up to 1 Gb/s
Supported streams	SPTS/MPTS
Supported protocols	UDP, RTP
Transmission type	Unicast/Multicast
Transmission stream	MPEG-2 ISO/IEC 13818 MPEG-2 ISO/IEC 14496

ANALOG output

Number of carriers	Up to 24 (One RF port)
Modulation	PAL/SECAM (VSB), FM, NICAM, A2
Frequency range	40 – 1006 MHz
Output level	90 -120 dBuV
CNR (after internal combining)	> 60 dB
SNR (after internal combining)	> 53 dB

Management and configuration

Embedded WEB server

Technical specification

Video format	MPEG-2 HD/SD MP@ML H.264/AVC High Level 4.1 high profile
Image format	PAL, NTSC
Aspect ratio	4:3 / 16:9
Image resolution	1080i, 720p
Audio formats	MPEG-1 Layer II AAC-LC, HE-AAC
Sampling frequency	48, 44.1, 32
Encoding bit rate	32...384 kbps
Output volume adjustment	-30...0 dB

Other

Housing	1RU, 19"
Dimensions (W x H x L)	483 x 44 x 502 mm
Weight	6 kg
Power supply voltage	100...240 V AC
Power consumption	100 W
Operating temperature	5...40 °C
Humidity	80 %

Software oriented architecture

Future proof upgrade of functionality by SW update

Flexible system scenario creation

One HW index for each region

Multi-format modulation from 1 RF output port

Significant RF management simplification

High density

Unique RF parameters

Flexible output configuration

Not adjacent frequency

